

~~SECRET~~

CONFIDENTIAL

15 October 1954

25X1

MEMORANDUM FOR: THE RECORD

SUBJECT: Visit of [REDACTED]

25X1

25X1

1. Time and Place of Meeting: The meeting was held on 8 October 1954 at [REDACTED]

25X1

2. Purpose of Meeting: To discuss infra red communications systems and IR cells and sources

3. Discussion:

a. I. R. Cells

Various photoconductive cells were discussed. It was brought out that PbS cells are available from Eastman Kodak, Photoswitch, Inc., Cambridge, Mass., The Chicago Midway Laboratories, and Continental Electric.

[REDACTED] originator of the TF photoconductive cell, is doing some work on other photoconductors at the present. He will make special cells.

25X1
25X1

b. I. R. Sources

[REDACTED] prefers cesium as a current modulated source but feels that tungsten is comparable if optical beam modulation is employed.

25X1

c. I. R. Commo Systems

Two specific systems were mentioned. The first is the flashlight system of the Signal Corps [REDACTED]. Preliminary tests of the idea were made by Northwestern. The source was a current modulated tungsten filament installed in a standard flashlight reflector. The receiver used was an AN/PAR-1. Vacuum ranges of 2 miles were obtained.

25X1
25X1

The second system mentioned was a pulse time modulated system built for the Navy. It is described in the final report of Contract No bsr-52066 (1773), Specification Ship C-228-1, August 1954, "Pulse Time Modulated Infra Red Communication", by [REDACTED]

25X1

Its advantages are long range with low power, good voice quality through fog and in daylight.

CONFIDENTIAL

25X1

Distribution:

1 - P-101B ✓

1 - Chrono

TSS/APD